

IN THE US PATENT & TRADEMARK OFFICE

PATENT APPLICATION

5

QUICK COUPLER FOR REMOVABLY JOINING TWO PIPES

10

ABSTRACT

The quick coupler according to the invention comprises a male element
15 adapted to be fitted in a female element and maintained in this position by a
latch forming stop and opposing a movement of withdrawal thereof.

A safety member maintains the latch in blocked position, under the action
of the pressure of the fluid, by the cooperation of two surfaces respectively
provided on the latch and on the safety member. This safety member releases the
20 latch when the residual pressure is low.

Such a device is particularly intended for the connection of pipes
conveying gas under pressure and avoids a premature uncoupling when the
device is pressurized.